

# 2 MP HDCVI Vari-focal Bullet Camera

2 MP HDCVI IR Bullet Camera

# HDCVI



- 2 MP at 30 fps Maximum Resolution
- HD and SD Switchable Output
- Supports Multiple Video Formats: HDCVI, CVBS, AHD and TVI
- 2.7 mm to 13.5 mm Vari-focal Lens
- Maximum IR Length 60 m (197 ft) with Smart IR
- IP67 Environmental Protection
- Designed for Extreme Temperature Environments
- Five-year Warranty\*













#### **System Overview**

Experience the superior clarity of Full HD 1080p video while leveraging your existing coaxial infrastructure. The camera features Smart IR technology to deliver clear images in near total darkness. The camera offers a multi-language on-screen display and HD and SD dual-output. The outstanding performance and low price make the camera an ideal choice for small businesses that value surveillance.

#### **Functions**

#### Three Signals over a Single Coaxial Cable

HDCVI technology simultaneously transmits video, power, and data over a single coaxial cable. Dual-way data transmission allows the HDCVI camera to communicate with an HCVR to send control signals or to trigger alarms. HDCVI along with PoC technology delivers power<sup>1</sup> to devices at the edge, simplifying installation.

#### Long Distance Transmission

HDCVI technology guarantees real-time transmission over long distances without loss of video quality. HDCVI cameras provide the same resolution as most IP network camera systems using existing RG-59, RG-6, or CAT 6 UTP cabling.

#### Simplicity

HDCVI technology seamlessly integrates traditional analog surveillance systems with upgraded, high-quality HD video, making it the best choice to protect security investments. The plug and play approach enables full HD video surveillance without the hassles of configuring a network.

#### Smart IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 60 m (197 ft).

#### Multi-format Support

The camera supports multiple video formats including, HDCVI, CVBS, AHD, and TVI. The camera can switch between these four formats via the OSD menu or via a UTC controller (PFM820), making the camera compatible with not only HDCVI DVRs but also most existing HD/SD DVRs.

#### Multi-language OSD

The OSD menu provides multiple image adjustments and function settings to meet the requirements of different monitoring scenes. The OSD menu includes configurations such as backlight mode, day/night, white balance, privacy mask and motion detection and offers Chinese, English, French, German, Spanish, Italian, Japanese, Korean, Russian, Polish, and Portuguese variations.

#### Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67, making it suitable for indoor or outdoor environments.

With a built-in heater and a working temperature range of  $-40\,^{\circ}\text{C}$  to  $+60\,^{\circ}\text{C}$  ( $-40\,^{\circ}\text{F}$  to  $+140\,^{\circ}\text{F}$ ), the camera is designed for extreme temperature environments. Supporting  $\pm25\%$  input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

<sup>1.</sup> Requires PoC Transceivers for each channel and an external power supply for each transceiver.

Technical Specification	1		
Camera			
Image Sensor	1/2.9-in. CMOS	1/2.9-in. CMOS	
Effective Pixels	1920(H) x 1280(V)	1920(H) x 1280(V), 2 MP	
Scanning System	Progressive	Progressive	
Electronic Shutter Speed	1/30 s to 1/10000	1/30 s to 1/100000 s	
Minimum Illumination		Color: 0.02 Lux at F1.3 0 Lux (with IR on)	
S/N Ratio	More than 65 dB	,	
IR Distance	Up to 60 m (196.8	Up to 60 m (196.85 ft)	
IR On/Off Control	Auto, Manual	Auto, Manual	
IR LEDs	Four (4)	Four (4)	
Lens			
Lens Type	Vari-focal Lens / F	Vari-focal Lens / Fixed Iris	
Mount Type	Board-in	Board-in	
Focal Length	2.7 mm to 13.5 m	2.7 mm to 13.5 mm	
Max Aperture	F1.3	F1.3	
Horizontal Angle of View	104° to 27°	104° to 27°	
Focus Control	Manual	Manual	
Close Focus Distance	200 mm (7.87 in.)	200 mm (7.87 in.)	
Pan / Tilt / Rotation			
Range	Pan: 0° to 360° Tilt: 0° to 87° Rotation: 0° to 36		
Video			
Resolution	2 MP (1920 x 1080	2 MP (1920 x 1080)	
Frame Rate	2 MP at 30 fps 720p at 30/60 fps		
Video Output	One (1) BNC HDC\	/I High-definition Channel, or , AHD, or TVI Channel, switchab	
	RG-59/U Coax	720p: 800 m (2624.67 ft) 1080p: 500 m (1640.42 ft)	
Video Transmission <sup>2</sup>	RG-6/U Coax	720p: 1200 m (3937.01 ft) 1080p: 800 m (2624.67 ft)	
	CAT 6 UTP (balun required)	720p: 450 m (1476.38 ft) 1080p: 300 m (984.25 ft)	
Day/Night	Auto (ICR), Manua	al	
OSD Menu	Multi-language	Multi-language	
BLC Mode	BLC, HLC, DWDR	BLC, HLC, DWDR	
WDR	Digital WDR	Digital WDR	
Gain Control	AGC	AGC	
Noise Reduction	2D	2D	
White Balance	Auto, Manual	Auto, Manual	
Smart IR	Auto, Manual	Auto, Manual	

#### Certifications

Gross Weight

Certifications				
Safety	EN55032, EN55024, EN50130-4 UL60950-1+CAN/CSA C22.2 No.60950-1			
Electromagnetic Compatibility (EMC)	FCC CFR 47 FCC Part 15 Subpart B ANSI C63.4-2014			
Electrical				
Power Supply	12 VDC ±25%			
Power Consumption	Maximum 7.7 W (12 VDC with IR on)			
Environmental				
Operating Conditions	-40° C to +60° C (-40° F to +140° F), Less than 95% RH Initiate startup above -40° C (-40° F)			
Storage Conditions	-40° C to +60° C (-40° F to +140° F), Less than 95% RH			
Ingress Protection	IP67			
Construction				
Casing	Aluminium			
Dimensions	213.0 mm x 90.40 mm x 90.40 mm (8.39 in. x 3.56 in.))			
Net Weight	0.55 kg (1.21 lb)			

0.68 kg (1.50 lb)

Transmission distance results verified by real-scene testing in Dahua's test laboratory. Actual transmission distances may vary due to external influences, cable quality, and wiring structures.

## Lite Series | A21BC0V

Ordering Information			
Туре	Part Number	Description	
2 MP Camera	A21BCOV	2 MP HDCVI IR Bullet Camera	
Accessories, optional	PFM321	12 VDC, 1 A Power Adapter	
	PFA135	Junction Box (Use alone or with PFA150 pole mount)	
	PFA150	Pole Mount (Use with PFA135 junction box)	
	PFM800	Passive HDCVI Balun	
	PFM801	Passive HDCVI Balun with Power	
	PFM810	PoC Transceiver	
	PFM820	UTC Controller	

Junction Mount	Pole Mount
PFA135	PFB135 + PFA150

### Accessories

#### Optional:



PFA135 Junction Box



PFA150 Pole Mount



PFM820 UTC Controller



PFM800 Passive HDCVI Balun

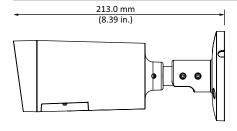


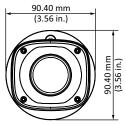
PFM801 Passive HDCVI Balun with Power



PFM810 PoC Transceiver

## Dimensions (mm/inch)







PFM321 Power Adapter

